

daloidal. In the latter the minerals chlorite, delessite and red heulandite are not unfrequently met with, as well as pseudomorphs of quartz and calcite.

#### ECONOMIC MINERALS.

The following are rocks or minerals which are or may become of economic importance in the district to which this report relates.

*Iron.*—In addition to the well-known beds of this mineral which traverse the region north of Woodstock and which have been fully described in previous reports, reference has been made in preceding pages to the occurrence of somewhat similar deposits on the northwest side of Oak Mountain near Benton. They occur in the middle of woods and are but imperfectly exposed, but seem to include beds of some thickness following the general trend of the Cambro-Silurian rocks with which they are found.

*Antimony.*—The occurrence of this metal at Prince William has been noticed in previous reports and full descriptions have been given of its distribution, mode of occurrence and associations. The efforts for its removal during the last few years, although involving considerable outlay, have been of an indeterminate and interrupted character, while the low price of the metal in the market and litigation arising from rival claims have still further tended to check vigorous and systematic working. At the time of our visit (October 1883) about eighty men were employed at the Brunswick mines, the only one then in operation, at wages varying from \$1.30 to \$1.50 per day, but not long after this the greater number of these were discharged and the work suspended. During the five months from May to October of the last year about twenty-nine tons of ore were sent off, chiefly to Medford, Mass., where the metal is largely employed in the manufacture of all kinds of rubber goods. The original capital stock of this company was \$100,000 which was subsequently increased to \$500,000, while the value of the plant, including a compressor, steel boiler, hoisting engine, steam pumps, &c., is about \$10,000. The freight from the mines to Prince William station on the New Brunswick railway, sixteen miles, is \$3 per ton, to Harvey station \$2, or to Medford, Mass., \$6.

The smelting and reduction of the ore, together with the manufacture of Babbit-metal, at one time carried on at these mines, has been for some time discontinued, and the somewhat expensive works erected for that purpose have been abandoned. It is said that something like \$400,000 have been expended by the various companies in this neighbourhood since operations first commenced.

To the facts given in previous reports relating to the geology of the mines, it may be here added that the rock recently removed from the